

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1.     **(Canceled)**

2.     **(Original):**   A method of treating organ dysfunction caused by ischemia comprising administering an effective amount of G-CSF or fragment thereof to a patient who is subjected to a surgical or interventional procedure in order to improve organ function, to improve blood flow and/or to induce revascularization.

3.     **(Currently Amended):**   The ~~use of claim 1 or the method of~~ claim 2, wherein said pharmaceutical composition or said effective amount of G-CSF or fragment thereof is to be administered before said surgical or interventional procedure.

4.     **(Currently Amended):**   The ~~use of claim 1 or the method of~~ claim 2, wherein said pharmaceutical composition or said effective amount of G-CSF or fragment thereof is to be administered during said surgical or interventional procedure.

5.     **(Currently Amended):**   The ~~use of claim 1 or the method of~~ claim 2, wherein said pharmaceutical composition or said effective amount of G-CSF or fragment thereof is to be administered after said surgical or interventional procedure.

6.     **(Currently Amended):**   The ~~use or the method of~~ claim 5, wherein said pharmaceutical composition or said effective amount of G-CSF or fragment thereof is to be administered between 2 hours and 5 days after said surgical or interventional procedure.

7. **(Currently Amended):** The ~~use or the method of any one of claims 1 to 6~~method of claim 2, wherein said ischemia is selected from the group consisting of myocardial ischemia, cerebral ischemia, renal ischemia, liver ischemia, peripheral muscle tissue ischemia, retinal ischemia and spinal cord ischemia.

8. **(Currently Amended):** The ~~use or the method of claim 7,~~ wherein said myocardial ischemia is caused by hypertension, coronary artery disease (CAD), myocardial infarction, thrombo-embolic events, trauma and/or surgical procedures.

9. **(Currently Amended):** The ~~use or the method of claim 7,~~ wherein said cerebral ischemia is caused by trauma, stroke, thrombo-embolic events, malformation of blood-supplying vessels, multi-infarct disease, cerebral hemorrhage, surgical and/or interventional measures.

10. **(Currently Amended):** The ~~use or the method of claim 7,~~ wherein said renal ischemia is caused by thrombo-embolic events, atherosclerosis, malformation of blood-supplying vessels, trauma and/or surgical procedures

11. **(Currently Amended):** The ~~use or the method of claim 7,~~ wherein said liver ischemia is caused by thrombo-embolic events, malformation of blood-supplying vessels, trauma and/or surgical procedures.

12. **(Currently Amended):** The ~~use or the method of claim 7,~~ wherein said peripheral muscle tissue ischemia is caused by thrombo-embolic events, atherosclerosis, malformation of blood-supplying vessels, trauma and/or surgical procedures.

13. **(Currently Amended):** The ~~use or the method of claim 7,~~ wherein said retinal ischemia is caused by thrombo-embolic events, malformation of blood-supplying vessels, trauma and/or surgical procedures.

14. **(Currently Amended):** The ~~use or the method of claim 7,~~ wherein said spinal cord ischemia is caused by thrombo-embolic events, atherosclerosis, malformation of blood-supplying vessels, trauma and/or surgical procedures.

15. **(Currently Amended):** The ~~use or the method of any one claims 1 or 7 to 14, claim 2,~~ wherein said ischemia causes organ defects.

16. **(Currently Amended):** The ~~use or the method of any one of claims 1 to 6~~ method of claim 2, wherein said surgical or interventional procedure is a procedure to regain blood flow selected from the group consisting of thrombolysis, balloon angioplasty, stenting, coronary or peripheral bypass surgery and ventriculo-coronary stenting.

17. **(Currently Amended):** The ~~use or the method of any one of claims 1 to 16~~ method of claim 2, wherein said pharmaceutical composition or said effective amount of G-CSF or fragment thereof is capable of recruiting stem and/or progenitor cells.

18. **(Currently Amended):** The ~~use or the method of claim 17,~~ wherein said stem cells are selected from the group consisting of CD34(+), multipotent adult progenitor cells (MAPC), endothelial progenitor cells (EPC), side population cells (SP) and lineage-negative stem cells.

19. **(Currently Amended):** The use or the method of claim 18,  
wherein said multipotent adult progenitor cells are CD34(-), vascular endothelial cadherin(-)  
and AC133(+) and Flk1(+).

20. **(Currently Amended):** The use or the method of claim 18,  
wherein said endothelial progenitor cells are CD34(+), CD31(+) and KDR(+).

21. **(Currently Amended):** The use or the method of claim 18,  
wherein said cells of the side population are CD34(-)/ low, c-Kit(+) and Sca-1(+).

22. **(Currently Amended):** The use or the method of claim 18,  
wherein said lineage-negative stem cells are CD5(-), CD19(-), CD34(-), c-Kit(+) and Sca-  
1(+).

23. **(Currently Amended):** The use or the method of any one of  
claim 17 to 22 method of claim 17, wherein said cells home to organs which harbour defects  
due to ischemia.

24. **(Currently Amended):** The use or the method of claim 23,  
wherein said cells are capable of repairing and/or regenerating said organs.